

S3 Table. Estimated connectivity parameters resulting from the DCM analysis.

(A) Group parameter estimates (FDR corrected p-values in parentheses) resulting from Bayesian model averaging (BMA) of the estimated parameters for the C matrix (input matrix), the A matrix (intrinsic connectivity matrix), and the B matrix (connection modulation matrix) for the left hemispheric models of the bidirect family (winning family). The left hemisphere DCMs included 5 regions; for the A and B matrix, the table is organized such that columns are the origin of the connection and lines are the target of the connection. Cell entries denoted as “na” were connections in the A matrix, but since for the left hemisphere, a single model was the overall winner, BMA was applied only to this model that had two B matrix entries that were not part of the estimation process.

(B) Group parameters for the right hemisphere.

(a) Left hemisphere					
	pSTS	mSTG	PPo	Amygdala	IFC
C matrix (input)	0.1140 (<0.001)	0.0081 (0.6518)	0.0121 (0.6518)		
A matrix (intrinsic connectivity)					
pSTS				0.0140 (0.3658)	0.0797 (0.0269)
mSTG	0.0177 (0.3303)		0.0128 (0.6456)		0.0363 (0.0456)
PPo				0.0094 (0.6735)	0.0626 (0.0269)
Amygdala	0.0576 (0.0269)		0.0231 (0.3658)		
IFC	0.0222 (0.0456)	0.0048 (0.8599)	0.0415 (0.0545)		
B matrix (modulation by condition)	Alarm screams				
mSTG					na
IFC		0.2559 (0.6750)			
	Non-alarm screams				
pSTS					-0.1170 (0.8683)
mSTG	0.7236 (0.0086)		na		
PPo					0.0765 (0.7443)
IFC	0.1339 (0.7443)		-0.0088 (0.9485)		
	Positive screams				
pSTS				0.0147 (0.9485)	
PPo				0.2073 (0.6750)	
Amygdala	0.1881 (0.6750)		0.0397 (0.9485)		
(b) Right hemisphere					

	pSTS	mSTG	mSTS	Amygdala	IFC
C matrix (input)	0.0800 (0.0346)	0.0938 (0.0031)	0.0046 (0.8172)		
A matrix (intrinsic connectivity)					
pSTS				0.0139 (0.2166)	0.0387 (0.2166)
pSTS	0.0261 (0.1490)				0.0693 (0.0198)
mSTS		0.0340 (0.0327)			0.0338 (0.0458)
Amygdala	0.0571 (0.0198)				
IFC	0.0097 (0.6645)	0.0394 (0.1869)	0.0180 (0.1869)		
B matrix (modulation by condition)	Alarm screams				
mSTS					0.0576 (0.6412)
IFC			0.2353 (0.1760)		
	Non-alarm screams				
mSTG					0.1893 (0.1618)
mSTS		0.5756 (0.0001)			
IFC		0.0162 (0.8916)			
	Positive screams				
pSTS				0.0588 (0.1315)	0.0459 (0.6835)
Amygdala	0.3392 (0.0156)				
IFC	0.4292 (0.0070)				